



**KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI**  
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## **ELECTRONIC THESIS AND DISSERTATION UNSYIAH**

### **TITLE**

**EFEK PEMBERIAN CITICOLINE TERHADAP STATUSRNFUNCTIONAL PASCACEDERA SARAF SCIATICUSRN PADA  
TIKUS PUTIH (RATTUS NORVEGICUS)**

### **ABSTRACT**

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Citicoline (CDP-choline) is an endogenous compound that serves as an intermediate compound in the synthesis of membrane phospholipids, acetylcholine synthesis and as a metal donor. Citicoline can provide cholinergic and neuroprotective effects. Citicoline can also improve the structural and functional integrity of nerve cell membranes and helps repair cell membranes during cell injury. The purpose of this study was to determine the role of citicoline on functional status pascaccedera sciaticus nerve. This study is an experimental laboratory study using 40 male white rats (*Rattus norvegicus*). Rats were divided into 4 experimental groups: the group I as a positive control group, group II as a negative control group, while group III, IV as a treatment group. Positive control group is a group that is covered with gelatin sponge soaked with 0.4 cc of saline solution 0.9%, the negative control group was not given the treatment while the treatment group is the group that was wrapped with a gelatin sponge soaked with citicoline 0.4 cc and 0.8 cc citicoline. Assessment of functional status can be done by the method of walking track. This method is done by letting the animals walk on the white paper along the 100 m with a given compartment is dark. From the analysis of walking tracks and followed by a graphic analysis found that citicoline role in the improvement of functional status. It can be concluded that citicoline may play a role in the process of improving functional status pascaccedera sciaticus nerve in the rat.

Keyword : Functional status, citicoline